

The Role of Agroforestry In Addressing Climate Change

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**Cornell Cooperative Extension
Schuyler County**

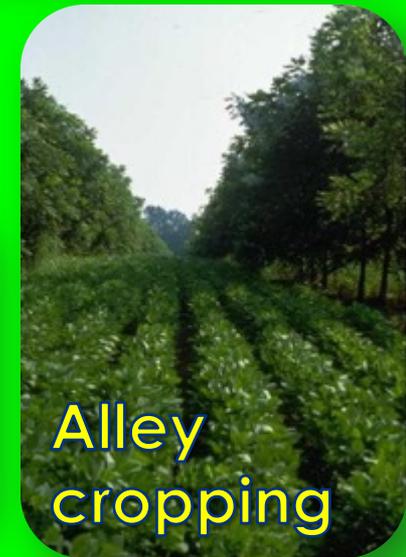
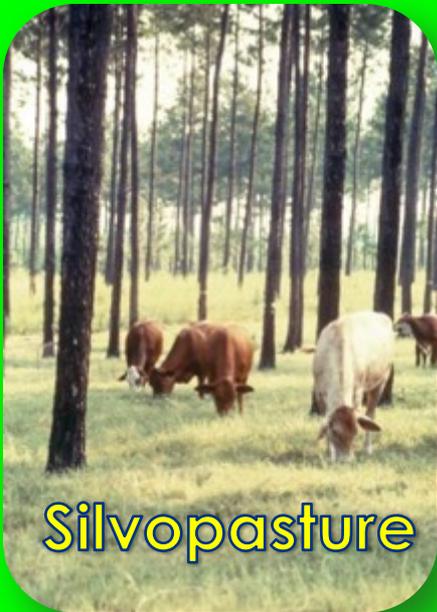
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Cornell University
Cooperative Extension

South Central
New York
Agriculture Team







*Silvopasturing is growing quality timber
and pasture together*



Silvopasture—It's Not a Load of Manure: Differentiating between Silvopasture and Wooded Livestock Paddocks in the Northeastern United States

Authors: Orefice, Joseph N.; Carroll, John

Source: Journal of Forestry, Volume 115, Number 1, 8 January 2017, pp. 71-72(2)

Publisher: Society of American Foresters

DOI: <https://doi.org/10.5849/jof.16-016>

Just a Few of the Benefits:

- *Provide annual income from wooded areas*
- *Engage landowners to be better stewards*
- *Rehabilitate degraded woodland areas*
- *Property tax abatement programs*
- *Stimulate forest regeneration*
- *Control problematic plants*
- *Animal comfort and welfare*
- *Enhanced wildlife habitat*
- *Nutrient and hydraulic lift*
- *Improved system resiliency*
- *Max crop utilization*
- *Ecosystem services*

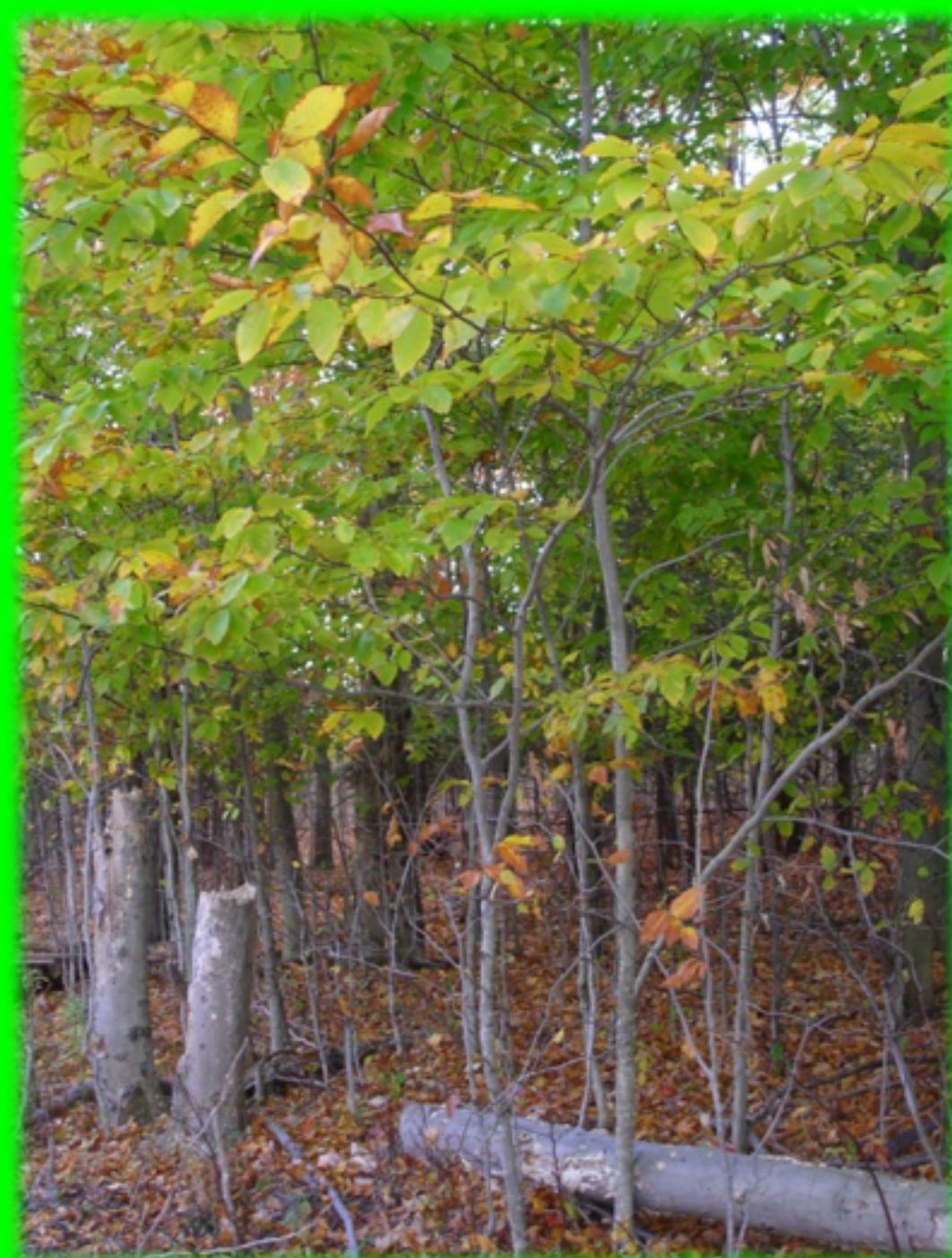
Diversified Nutrition →





Estancia Rincon Grande - Argentina

Our farm < 2002...





Understory was previously dominated by dense invasive shrubs

NEW YORK TIMES BESTSELLER

DRAWDOWN

THE MOST COMPREHENSIVE
PLAN EVER PROPOSED TO
REVERSE GLOBAL WARMING
EDITED BY PAUL HAWKEN



**#1 Best-Selling
Environmental Book
of 2017**

“... far outpaces any grassland for sequestering carbon...”

The screenshot shows the Drawdown website interface. At the top, there is a navigation bar with the Drawdown logo, social media icons for Twitter, LinkedIn, Facebook, and Instagram, and buttons for 'email sign up' and 'donate'. Below the navigation bar is a decorative image of a field with trees and a cow. The main content area features the title 'FOOD SILVOPASTURE' in large, bold letters, followed by a large '#9' indicating its rank. To the right of the title, there is a section titled 'RANK AND RESULTS BY 2050' which lists: 31.19 GIGATONS REDUCED CO2, \$41.59 BILLION NET IMPLEMENTATION COST, and \$699.37 BILLION NET OPERATIONAL SAVINGS. Below this, an 'IMPACT' section provides a detailed description of the solution. On the left side, there are sections for 'REFERENCES' and 'ERRATA', each with a downward-pointing chevron icon.

≡ DRAWDOWN

email sign up donate

Credit: By Jackson / Harry Store Photo

FOOD SILVOPASTURE

#9

RANK AND RESULTS BY 2050

31.19 GIGATONS REDUCED CO2

\$41.59 BILLION NET IMPLEMENTATION COST

\$699.37 BILLION NET OPERATIONAL SAVINGS

IMPACT: We estimate that silvopasture is currently practiced on 351 million acres of land globally. If adoption expands to 554 million acres by 2050—out of the 2.7 billion acres theoretically suitable for silvopasture—carbon dioxide emissions can be reduced by 31.2 gigatons. This reduction is a result of the high annual carbon sequestration rate of 1.95 tons of carbon per acre per year in soil and biomass. Farmers could realize financial gains from revenue diversification of \$699 billion, an investment of \$42 billion to implement.

REFERENCES

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“... sequester five to ten times as much carbon...”

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FOOD SILVOPASTURE #9

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REFERENCES ▾

ERRATA ▾

“... more resilient and better insulate farmers from risk...”

“... can help farmers and their livestock adapt to erratic weather...”



Agroforestry Expertise:

- ***USDA National Agroforestry Center***
<http://www.unl.edu/nac>
- ***The Center for Agroforestry***
<http://www.centerforagroforestry.org>
- ***Association for Temperate Agroforestry***
<http://www.aftaweb.org/agroforestry-introduction.php>
- ***Cornell's Agroforestry Forums:***

www.cornellforestconnect.ning.com

www.silvopasture.ning.com



Silvopasturing is Intensive Rotational Grazing!

... with long rest and recovery periods between

